# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

Α.	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 08/07/2008
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER:LRN 2008-01236, Barton Pride, E. O. Byars Construction
	PROJECT LOCATION AND BACKGROUND INFORMATION: Whitley Branch Mile 1.0, Left Bank a Tributary of Cane Creek e 1.5, Left Bank, TRM 244.2, LB State:Alabama County/parish/borough: Colbert City: Barton Center coordinates of site (lat/long in degree decimal format): Lat. 34.73° N, Long87.88° W.  Universal Transverse Mercator: 16N Name of nearest waterbody: Whitley Branch Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Tennessee River Mle 244.2, LB Name of watershed or Hydrologic Unit Code (HUC): 6030005  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  ☐ Office (Desk) Determination. Date: August 7, 2008 ☐ Field Determination. Date(s): August 8, 2008
SE(	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce Explain:
В. (	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas  Wetlands adjacent to TNWs  Relatively permanent waters <sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  Non-RPWs that flow directly or indirectly into TNWs  Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  Impoundments of jurisdictional waters  Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: 1500 linear feet: 5 width (ft) and/or acres.  Wetlands: acres.

c. Limits (boundaries) of jurisdiction based on: Established by OHWM.

Elevation of established OHWM (if known):

Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

**SECTION I: BACKGROUND INFORMATION** 

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

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Identify TNW:

Summarize rationale supporting determination:

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size: 51.1 square miles

Drainage area: 1300 acres

Average annual rainfall: 56.9 inches Average annual snowfall: inches

# (ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

Project waters are 1-2 river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are 1 (or less) aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: Whitley Branch, which flows through the review area, to flow into Tanyard Branch which then flows into Cane Creek, a TNW and part of Pickwick Lake Reservoir.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	Tributary stream order, if known: 2.
(b)	General Tributary Characteristics (check all that apply):  Tributary is:
	Tributary properties with respect to top of bank (estimate): Average width: 30 feet Average depth: 2 feet Average side slopes: Vertical (1:1 or less).
	Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: 3% Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Stable. Presence of run/riffle/pool complexes. Explain: Presence of scour pools. Tributary geometry: Meandering Tributary gradient (approximate average slope): 7 %
(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Seasonal flow. Other information on duration and volume:
	Surface flow is: <b>Confined.</b> Characteristics:
	Subsurface flow: <b>Unknown</b> . Explain findings: Dye (or other) test performed: .
	Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation  shelving destruction of terrestrial vegetation  the presence of wrack line sediment sorting  vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community  other (list):  Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):    High Tide Line indicated by:
Cha Idea	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Pools of clear standing water was found in the stream channel. ntify specific pollutants, if known: Whitley Branch flows through a rural area and adjacent to a hayfield. Pollutants that he seasonal stream channel are pesticides, herbicides, and fertilizers from runoff.

<sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

	(iv)	$\square$	logical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width): 75 feet.  Wetland fringe. Characteristics:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
2.	Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Sical Characteristics: General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:
			Surface flow is: Pick List Characteristics:
			Subsurface flow: <b>Pick List</b> . Explain findings:  Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW  Project wetlands are Pick List river miles from TNW.  Project waters are Pick List aerial (straight) miles from TNW.  Flow is from: Pick List.  Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Cha	emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: https://example.com/racteristics/pollutants/poll
	(iii)	Biol	logical Characteristics. Wetland supports (check all that apply):  Riparian buffer. Characteristics (type, average width):  Vegetation type/percent cover. Explain:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
3.	Cha	All	eristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis: Pick List proximately ( ) acres in total are being considered in the cumulative analysis.

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: Whitley Branch is within 2 river miles of Cane Creek, a TNW, which is part of Pickwick Lake Reservoir. Due to the close proximity to a TNW, Whitley Branch has the capacity to carry pollutants to Cane Creek. Whitley Branch does not support any fish habitat, but has the ability to support aquatic insects due to its seasonal flow an ability to retain moisture with the assistance of the riparian zone. Whitley Branch provides for flood storage. The chemical functions of the tributary include carbon transport and nutrient reductions. Whitley Branch has the ability to significantly affect the chemical, physical and biological integrity of a TNW.
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D.	DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL
	THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:

	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Presence of cobbles, pockets of standing water, scour holes, disposition bars, wetland plants within the streambed, and exhibits a less sinuous channel than a perennial stream.
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: <b>1500</b> linear feet; <b>5</b> width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	■ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY

E.

SUCH WATERS (CHECK ALL THAT APPLY):10

 <sup>&</sup>lt;sup>8</sup>See Footnote # 3.
 <sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 <sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

	which are or could be used by interstate or foreign travelers for recreational or other purposes.  from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.  which are or could be used for industrial purposes by industries in interstate commerce.  Interstate isolated waters. Explain:  Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .  Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
	CTION IV: DATA SOURCES.  SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
A.	and requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.  Data sheets prepared by the Corps:  Corps navigable waters' study:Navigable water as listed in Nashville District Public Notice #86-23, dated 8 May 1986.  U.S. Geological Survey Hydrologic Atlas:  USGS NHD data.  USGS 8 and 12 digit HUC maps.  U.S. Geological Survey map(s). Cite scale & quad name: 1:24000; Barton Alabama Quad.  USDA Natural Resources Conservation Service Soil Survey. Citation: Colbert County, AL; NRCS Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov.  National wetlands inventory map(s). Cite name:
	State/Local wetland inventory map(s):  FEMA/FIRM maps:  100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)  Photographs: ☐ Aerial (Name & Date):  or ☐ Other (Name & Date):Digital Photos taken during site visit on August 8, 2008.  Previous determination(s). File no. and date of response letter:  Applicable/supporting case law:

Applicable/supporting scientific literature: Tennessee Valley Authority, Hydraulic Data Branch, Drainage Areas for Streams in
Tennessee River Basin, March 1970, Report No. 0-5829-R-2; NC Division of Water Quality. 2005. Identification Methods for the
Origins of Intermittent and Perennial Streams, Version 3.1. North Carolina Department of Environment and Natural Resources,
Division of Water Quality. Raleigh, NC. Effective Date: February 28, 2005; The Role of Headwater Streams in Downstream Water
Quality, Journal of the American Water Resources Association (JAWRA), February 2007, Volume 43, No. 1, Pages 41-59.
Other information (please specify):

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** POC David Monroe, Decatur AL Field Office, 256-350-5620.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

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Λ	<b>1. REPORT COMPLETION DATE FOR APPROVED JURISDICT</b>	FIONAL DETERMINATION (ID): 05-Aug-2009
Л.	I. ILLI OILI COMI LETION DATETOILALTICALD JURISDICT	

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01018-JD1

C.	PROJEC1	LOCATION	AND BA	CKGROUND	INFORMATION:
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State : AL - Alabama
County/parish/borough: Madison

City: Redstone Arsenal

Lat: Long:

Universal Transverse Mercator: []

Name of nearest waterbody: Unnamed tributary of Indian Creek

Name of nearest Traditional Navigable Water (TNW): Wheeler Lake

Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

05-Aug-2008

Office Determination Date:

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

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There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
Stream 1	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

Watershed size:

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

# (i) General Area Conditions:

62.9 square

miles

Drainage area: 340 acres
Average annual rainfall: 54 inches
Average annual snowfall: 3 inches

# (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 2-5 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 2-5 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

unnamed tributary to Indian Creek that becomes Wheeler Lake(TNW)

# **Tributary Stream Order, if known:**

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Order	Tributary Name				
1	Stream 1				

# (b) General Tributary Characteristics:

# Tributary is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
Stream 1	X	-	-	-	-

# Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes
Stream 1	5	2	2:1

# Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
Stream 1	Х	-	-	-	Х	-	-	-	-

# Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
Stream 1	varies	no	Relatively straight	1.25

# (c) Flow:

Tributary Name	outary Name Provides for Events Per Year		Flow Regime	Duration & Volume			
Stream 1	Seasonal flow	DILLOR GRASTARI		Flashy runoff due to headwaters in steep terrain.			

# **Surface Flow is:**

Tributary Name	Surface Flow	Characteristics		
Stream 1	Confined	-		

# **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
Stream 1	Unknown	-	-

# **Tributary has:**

Tributary Name	Bed & Banks	OHWM	Discontinuous OHWM <sup>7</sup>	Explain
Stream 1	X	X	-	-

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

				•		,											
Tributary Nar	ne OHV	VM	Clear	Litter	Changes	Destruction	Shelving	Wrack Line	Matted\Absent	Sediment	Leaf Litter	Scour	Sediment	Flow Events	Water	Changes	Other
					in Soil	Vegetation			Vegetation	Sorting			Deposition		Staining	Plant	
Stream 1	X		Χ	-	-	-	-	-	-	-	-	X	Х	X	-	-	-

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# **High Tide Line indicated by:**

Not Applicable.

# Mean High Water Mark indicated by:

# (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

Tributary Name	Explain	ldentify specific pollutants, if known
Stream 1	watershed mixture of forested and pasture	-

#### (iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
Stream 1	X	narrow width with trees	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

# (i) Physical Characteristics:

(a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

# (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

# (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

# (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Stream 1

Carbon transport, flow attenuation, floodwater storage for mapped floodplain

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

N. Tro that non all ootly of manochy into rivino.								
Wetland Name	Flow	Explain						
Stream 1	SEASONAL	size of watershed						

# Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
Stream 1	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	731.52	-
Total:		731.52	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:10

Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on		
behalf of the applicant/consultant	_	
Corps navigable waters study	-	Nashville District Public Notice #86-23, dated 8 May 1986
U.S. Geological Survey map(s).	-	Madison, AL
FEMA/FIRM maps	-	-
Photographs	-	-
Aerial	-	-
Other	-	-

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.

- g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 05-Aug-2008
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B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01018-JD2

C. PROJECT	LOCATION AND	D BACKGROUND	INFORMATION:
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State : AL - Alabama
County/parish/borough: Madison

City: Redstone Arsenal

Lat: Long:

Universal Transverse Mercator: []

Name of nearest waterbody: Unnamed tributary of Indian Creek

Name of nearest Traditional Navigable Water (TNW): Wheeler Lake

Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

## D. REVIEW PERFORMED FOR SITE EVALUATION:

05-Aug-2008

Office Determination Date:

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

Δ	RHA SECTION 1	DETERMINATION OF	JURISDICTION
м.	. NHA SECTION I	J DETERMINATION OF	JUNIOUIGHUN

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
Water Hame	mater Type(c) Freeding
Stream 2	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
Oli calli Z	relatively i emiliation waters (iv vvs) that now affectly of matheolic line invivs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

Watershed size:

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

# (i) General Area Conditions:

62.9 square

miles

Drainage area: 5 square miles

Average annual rainfall: 54 inches Average annual snowfall: 3 inches

# (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 2-5 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 2-5 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

Unnamed tributary to Indian Creek that becomes Wheeler Lake(TNW)

# **Tributary Stream Order, if known:**

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Order	Tributary Name			
2	Stream 2			

# (b) General Tributary Characteristics:

# **Tributary is:**

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
Stream 2	X	-	-	-	-

# Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes
Stream 2	8	3	2:1

# Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
Stream 2	Х	-	-	-	Х	-	-	-	-

# Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
Stream 2	varies	-	Relatively straight	.294

# (c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
Stream 2	Seasonal flow	20 (or greater)	wet seasons and following rain events year round	-

# **Surface Flow is:**

Tributary Name	Surface Flow	Characteristics
Stream 2	Confined	-

# **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
Stream 2	Unknown	-	-

# **Tributary has:**

Tributary Name	Bed & Banks	OHWM	Discontinuous OHWM <sup>7</sup>	Explain
Stream 2	X	X	-	-

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

			•		•											
<b>Tributary Name</b>	OHWM	Clear	Litter	Changes	Destruction	Shelving	Wrack Line	Matted\Absent	Sediment	Leaf Litter	Scour	Sediment	Flow Events	Water	Changes	Other
				in Soil	Vegetation			Vegetation	Sorting			Deposition		Staining	Plant	
Stream 2	X	Х	-	-	-	-	-	-	-	-	Х	-	Х	-	-	-

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# **High Tide Line indicated by:**

Not Applicable.

# Mean High Water Mark indicated by:

# (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
Stream 2	mixture of woods and pasture	-

#### (iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
Stream 2	X	narrow wooded	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

# (i) Physical Characteristics:

(a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

# (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

# (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

# (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Stream 2

carbon transport, flow attenuation, flood storage in mapped floodplain

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

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Wetland Name	Flow	Explain					
Stream 2	SEASONAL	size of watershed					

# Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
Stream 2	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	1066.8	-
Total:		1066.8	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:10

Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Corps navigable waters study	-	Nashville District Public Notice # 86-23, dated 8 May 1986
U.S. Geological Survey map(s).	-	1:24,000, Madison, AL
FEMA/FIRM maps	-	-
Photographs	-	-
Aerial	-	-
Other	-	-

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or

agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

#### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 06-Aug-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-00960-JD1

## C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: AL - Alabama
County/parish/borough: Madison
City: Huntsville

Lat: Long:

Universal Transverse Mercator:

[]

Name of nearest waterbody: Betts Spring Branch

Name of nearest Traditional Navigable Water (TNW): Wheeler Lake

Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date:

06-Aug-2008

onice Determination Date.

08-Jul-2008

Field Determination Date

(s):

## **SECTION II: SUMMARY OF FINDINGS**

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

in managed production or materiol or order in rotton around					
Water Name	Water Type(s) Present				
Upland Ditch	Uplands				

<li>b. Identify (estimate) size of waters of the U.S. in the review are</li>
--

Area:	(m <sup>2</sup> )
Linear:	(m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The USGS quad map indicates a "blue-line stream" on the property but my onsite inspection revealed the lack of a channel with an ordinary high water mark necessary to be a water of the U.S.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

#### 2. Wetland Adjacent to TNW

Not Applicable.

## B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

## 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size:	[]
Drainage area:	[]
Average annual rainfall:	inches
Average annual snowfall:	inches

#### (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [ ] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

## Tributary Stream Order, if known:

ORM Printer Friendly JD Form
(b) General Tributary Characteristics: Tributary is: Not Applicable.
Tributary properties with respect to top of bank (estimate): Not Applicable.
Primary tributary substrate composition: Not Applicable.
Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.
(c) Flow: Not Applicable.
Surface Flow is: Not Applicable.
Subsurface Flow: Not Applicable.
Tributary has: Not Applicable.
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.
(iv) Biological Characteristics. Channel supports: Not Applicable.
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.
Surface flow is: Not Applicable.
Subsurface flow: Not Applicable.

# (d) Proximity (Relationship) to TNW: Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

#### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Not Applicable.

**SECTION IV: DATA SOURCES.** 

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Corps navigable waters study	-	Nashville District Public Notice #86-23, dated 8 May 1986
U.S. Geological Survey map(s).	-	1:24,000, Madison, AL
USDA Natural Resources Conservation Service		
Soil Survey.	_	
Photographs	-	-
Aerial	-	-
Other	-	-

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- 3-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup>-To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

#### SECTION I: BACKGROUND INFORMATION

#### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 04-Aug-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-00610-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

AL - Alabama State: County/parish/borough: Madison City: Hazel Green

Lat: Long:

Universal Transverse Mercator:

Name of nearest waterbody: Unnamed Tributary of Brier Fork Flint River

Name of nearest Traditional Navigable Water (TNW): Flint River Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

[]

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

04-Aug-2008

Office Determination Date:

02-Jul-2008

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

Mater Name	
Water Name	Water Type(s) Present
Wetland Abutting UT Brier Fork	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

Not Applicable.

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size:

Drainage area:

112 square miles

200 acres

Drainage area: 200 acres
Average annual rainfall: 54 inches
Average annual snowfall: 3 inches

## (ii) Physical Characteristics

#### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 10-15 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 10-15 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

no

Identify flow route to TNW:5

Unnamed tributary, Unnamed tributary, Unnamed tributary, Brier Fork Flint River, Flint River(TNW)

#### Tributary Stream Order, if known:

# (b) General Tributary Characteristics:

#### Tributary is:

Not Applicable.

## Tributary properties with respect to top of bank (estimate):

Not Applicable.

#### Primary tributary substrate composition:

Not Applicable.

# Tributary (conditions, stability, presence, geometry, gradient):

Not Applicable.

# (c) Flow:

Not Applicable.

#### Surface Flow is:

Not Applicable.

#### **Subsurface Flow:**

Not Applicable.

## **Tributary has:**

Not Applicable.

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

#### **High Tide Line indicated by:**

Not Applicable.

#### Mean High Water Mark indicated by:

Not Applicable.

#### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

## (iv) Biological Characteristics. Channel supports:

Not Applicable.

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

## (a) General Wetland Characteristics:

**Properties:** 

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
Wetland Abutting UT Brier Fork	4	forested palustrine	good	no

## (b) General Flow Relationship with Non-TNW:

Flow is:

Wetland Name	Flow	Explain
Wetland Abutting UT Brier Fork	Intermittent flow.	-

#### Surface flow is:

Wetland Name	Flow	Characteristics
Wetland Abutting UT Brier Fork	Discrete and confined	-

#### Subsurface flow:

Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Test
Wetland Abutting UT Brier Fork	Unknown	-	-

#### (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
Wetland Abutting UT Brier Fork	Yes	-	-	-

#### (d) Proximity (Relationship) to TNW:

Wetland Name	River Miles From TNW	Aerial Miles From TNW	Flow Direction	Within Floodplain
Wetland Abutting UT Brier Fork	10-15	10-15	Wetland to navigable waters	-

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

, ,		
Wetland Name	Explain	Identify specific pollutants, if known
Wetland Abutting UT Brier Fork	-	-

#### (iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain
Wetland Abutting UT Brier Fork	-	-	Х	decidous hardwood trees, 90%

#### Habitat for:

Wetland Name		Federally Listed Species	Explain Findings	Spawn Area		Other Environmentally Sensitive Species	Explain Findings	Aquatic\Wildlife Diversity	Explain Findings
Wetland Abutting UT Brier Fork	Х	-	-	-	-	-	_	Х	-

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Wetland Abutting UT Brier Fork

Carbon transport downstream, flood storage, flow attenuation

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

## 2. RPWs that flow directly or indirectly into TNWs:

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

, ,		
Wetland Name	Flow	Explain
Wetland Abutting LIT Brier Fork	nd Abutting UT Brier Fork SEASONAL channel surrounded by wetland vegetation indicating groun influence seasonally	channel surrounded by wetland vegetation indicating groundwater
retiand Abatting OT Brief Tork		influence seasonally

#### Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
IVVATIANA ANIITTINA I I I BRIAR FORK	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	16187.424
Total:		0	16187.424

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

# Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE

COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup> Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on	_	-
behalf of the applicant/consultant		
Corps navigable waters study	-	Nashville District Public Notice #86-23, dated 8 May 1986
U.S. Geological Survey map(s).	-	Fisk, AL-TN
USDA Natural Resources Conservation Service Soil Survey.	-	Madison County, AL
Photographs	-	-
Aerial	-	-
Other	-	-

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>8-</sup>See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

ΓΙΟΝ I: BACKGROUND INFORM	IATION
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Α.
REPORT COMPLETION DATE
E FOR APPROVED
JURISDICTIONAL
DETERMINATION (
JD): 08/08/2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District; Legacy Grove Subdivision; LRN-2006-02534, JD 2 C. PROJECT LOCATION AND BACKGROUND INFORMATION: Isolated Wetland; Martin Branch Mile 0.4, Right Bank; Tennessee River Mile 310.7, Right Bank; North of Newby Road. County/parish/borough: Limestone City: Athens State: Alabama Center coordinates of site (lat/long in degree decimal format): Lat. 34.7515106° N, Long. -86.8697615° W. Universal Transverse Mercator: 16N Name of nearest waterbody: Martin Branch Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Limestone Creek. Name of watershed or Hydrologic Unit Code (HUC): 6030002 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: 07/22/2008 Field Determination. Date(s): 06/19/2008 **SECTION II: SUMMARY OF FINDINGS** A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres.

#### c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known):

Wetlands: 3.85 acres.

Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The wetland does not have a jurisdictional connection with a Water of the U.S.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1.	TNW Identify TNW:	
	Summarize rationale supporting determination: .	
2.	Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent":	

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

# Watershed size: Pick List Drainage area: Pick List Average annual rainfall: inches Average annual snowfall: inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. Tributary flows through **Pick List** tributaries before entering TNW. Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW. Project waters are **Pick List** aerial (straight) miles from TNW. Project waters are **Pick List** aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW<sup>5</sup>: Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	(b)	General Tributary Characteristics (check all that apply):
		Tributary is: Natural
		Artificial (man-made). Explain:
		Manipulated (man-altered). Explain:
		<u> </u>
		<b>Tributary</b> properties with respect to top of bank (estimate):
		Average width: feet
		Average depth: feet
		Average side slopes: <b>Pick List.</b>
		Primary tributary substrate composition (check all that apply):
		☐ Silts ☐ Sands ☐ Concrete
		☐ Cobbles ☐ Gravel ☐ Muck
		☐ Bedrock ☐ Vegetation. Type/% cover:
		Other. Explain:
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
		Presence of run/riffle/pool complexes. Explain:
		Tributary geometry: Pick List
		Tributary gradient (approximate average slope): %
		Thouasy gradient (approximate average slope).
	(c)	Flow:
	(C)	Tributary provides for: <b>Pick List</b>
		Estimate average number of flow events in review area/year: Pick List
		Describe flow regime:
		Other information on duration and volume:
		Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Surface flow is. Fire Dist. Characteristics.
		Subsurface flow: Pick List. Explain findings: .
		Dye (or other) test performed:
		Tributary has (check all that apply):
		Bed and banks
		OHWM <sup>6</sup> (check all indicators that apply):
		clear, natural line impressed on the bank the presence of litter and debris
		changes in the character of soil destruction of terrestrial vegetation
		shelving the presence of wrack line
		vegetation matted down, bent, or absent sediment sorting
		leaf litter disturbed or washed away scour
		sediment deposition multiple observed or predicted flow events
		water staining abrupt change in plant community
		other (list):
		Discontinuous OHWM. Explain:
		☐ Discontinuous Off wivi. Explain.
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
		High Tide Line indicated by:  Mean High Water Mark indicated by:
		oil or scum line along shore objects survey to available datum;
		☐ fine shell or debris deposits (foreshore) ☐ physical markings; ☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
		tidal gauges
		other (list):
(;;:)	Ch	omical Characteristics
(111)		emical Characteristics:  uracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
	Cna	
	Ida	Explain: .
	ider	ntify specific pollutants, if known:

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

	(iv)	[	gical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width):  Wetland fringe. Characteristics:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
2.	Cha	ractei	ristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	(a) <u>(a)</u>	ical Characteristics: General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
			General Flow Relationship with Non-TNW: Flow is: <b>Pick List</b> . Explain: .
			Surface flow is: Pick List Characteristics:
		S	Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
		(c) <u>\ \                                 </u>	Wetland Adjacency Determination with Non-TNW:  Directly abutting  Not directly abutting  Discrete wetland hydrologic connection. Explain:  Ecological connection. Explain:  Separated by berm/barrier. Explain:
		] ] ]	Proximity (Relationship) to TNW  Project wetlands are Pick List river miles from TNW.  Project waters are Pick List aerial (straight) miles from TNW.  Flow is from: Pick List.  Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Chara	nical Characteristics: acterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: ify specific pollutants, if known:
	(iii)		gical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
3.	Cha	All w	ristics of all wetlands adjacent to the tributary (if any) retland(s) being considered in the cumulative analysis: Pick List oximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.  ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:  ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
4.	<ul> <li>Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.</li> <li>Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.</li> <li>Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:</li> <li>Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly</li> </ul>
	abutting an RPW:  Provide acreage estimates for jurisdictional wetlands in the review area:  acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
SUC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:
Ide	ntify water body and summarize rationale supporting determination:

E.

 <sup>&</sup>lt;sup>8</sup>See Footnote # 3.
 <sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 <sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .  Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above): The wetland does not have a jurisdictional connection with a Waters of the U.S.
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.
SEC	CTION IV: DATA SOURCES.
<b>A.</b>	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Submitted by Great Southern Engineering, Inc., Ms. Kiley Taylor, on behalf of Mr. Gray Winn, Legacy Grove Subdivision.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.
	□ Data sheets prepared by the Corps: □ Corps navigable waters' study:Navigable water as listed in Nashville District Public Notice #86-23, dated 8 May 1986. □ U.S. Geological Survey Hydrologic Atlas: □ USGS NHD data. □ USGS 8 and 12 digit HUC maps.
	<ul> <li>□ U.S. Geological Survey map(s). Cite scale &amp; quad name: 1:24000; Greenbrier &amp; Capshaw, AL Quads.</li> <li>□ USDA Natural Resources Conservation Service Soil Survey. Citation: Limestone County, AL; NRCS Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov.</li> <li>□ National wetlands inventory map(s). Cite name: .</li> </ul>
	State/Local wetland inventory map(s):  FEMA/FIRM maps: Limestone County, Alabama (Unincorporated Areas), Community Panel Number 010307 0113 B; Effective Date: July 16, 1981.
	□ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) □ Photographs: □ Aerial (Name & Date): Google, 2008 Tele Atlas.  or □ Other (Name & Date): Digital Photos taken during site visit on June 19, 2008.
	Previous determination(s). File no. and date of response letter:  Applicable/supporting case law:  Applicable/supporting scientific literature: Tennessee Valley Authority, Hydraulic Data Branch, Drainage Areas for Streams in Tennessee River Basin, March 1970, Report No. 0-5829-R-2; NC Division of Water Quality. 2005. Identification Methods for the Origins of Intermittent and Perennial Streams, Version 3.1. North Carolina Department of Environment and Natural Resources, Division of Water Quality. Raleigh, NC. Effective Date: February 28, 2005; The Role of Headwater Streams in Downstream Water Quality, Journal of the American Water Resources Association (JAWRA), February 2007, Volume 43, No. 1, Pages 41-59.

	Other information	(please specify):	
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**B. ADDITIONAL COMMENTS TO SUPPORT JD:** POC Gary Davis, Decatur AL Field Office, 256-350-5620.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

## A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01205-JD2

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

TN Tennessee

County/parish/borough:

Knox

City:

Knoxville

Lat:

35.96344

Long:
-84.09916

Universal Transverse Mercator: []

Name of nearest waterbody: Meadow Creek
Name of nearest Traditional Navigable Water (TNW): Beaver Creek
Name of watershed or Hydrologic Unit Code (HUC): 06010207

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 21-Jul-2008

21-Jul-2008

Field Determination Date

(s):

### **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

# **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
File #2008-01205; Sanderson Wetlands	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

b. Identify (e	estimate) size	of waters of	the U.S. in	the review a	area:
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Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

## 2. Wetland Adjacent to TNW

Not Applicable.

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

### (i) General Area Conditions:

Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches

#### (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [ ] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# **Tributary Stream Order, if known:**

# (b) General Tributary Characteristics:

#### Tributary is:

Not Applicable.

# Tributary properties with respect to top of bank (estimate):

Not Applicable.

## Primary tributary substrate composition:

Not Applicable.

# Tributary (conditions, stability, presence, geometry, gradient):

Not Applicable.

## (c) Flow:

Not Applicable.

### Surface Flow is:

Not Applicable.

# Subsurface Flow:

Not Applicable.

### **Tributary has:**

Not Applicable.

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

### High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by:

Not Applicable.

#### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iv) Biological Characteristics. Channel supports:

Not Applicable.

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

# (i) Physical Characteristics:

# (a) General Wetland Characteristics:

#### **Properties:**

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
File #2008-01205; Sanderson Wetlands	1	Pallistrine emergent	moderate to high, due to relatively small size	No

# (b) General Flow Relationship with Non-TNW:

#### Flow is:

Wetland Name	Flow	Explain
File #2008-01205; Sanderson Wetlands	Perennial flow.	-

#### Surface flow is:

Wetland Name	Flow	Characteristics
File #2008-01205; Sanderson Wetlands	Discrete and confined	-

#### Subsurface flow:

Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Test
File #2008-01205; Sanderson Wetlands	Unknown	-	-

#### (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
File #2008-01205; Sanderson Wetlands	Yes	-	-	-

### (d) Proximity (Relationship) to TNW:

Wetland Name		Aerial Miles From TNW	Flow Direction	Within Floodplain
File #2008-01205; Sanderson Wetlands	10-15	5-10	Wetland to navigable waters	50 - 100-year

### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollutants, if known
File #2008-01205; Sanderson Wetlands	-	Unknown

## (iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain
File #2008-01205; Sanderson Wetlands	-	-	Х	Juncus spp, Carex spp, 60% cover

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

## 1. TNWs and Adjacent Wetlands:

Not Applicable.

### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

### 3. Non-RPWs that flow directly or indirectly into TNWs:8

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetland Name	Flow	Explain
File #2008-01205; Sanderson Wetlands	PERENNIAL	Channel is spring-fed and flows year round

Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
TELIA # 7008-01 702, Sandaredo Matiande	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	4046.856
Total:		0	4046.856

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

### Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

## F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### **SECTION IV: DATA SOURCES.**

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

## **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-lbid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

#### SECTION I: BACKGROUND INFORMATION

## A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01205-JD1

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

TN -State: Tennessee County/parish/borough: Knox City: Knoxville Lat: 35.96344 Long: -84.09916

Universal Transverse Mercator: []

Name of nearest waterbody: Meadow Creek Name of nearest Traditional Navigable Water (TNW): Beaver Creek Name of watershed or Hydrologic Unit Code (HUC): 06010207

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

21-Jul-2008 Office Determination Date:

21-Jul-2008

Field Determination Date

(s):

### **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

# **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
File #2008-01205; Sanderson Upland	Uplands

<ul><li>b. Identify (estimate) size of waters of the U.S. in the rev</li></ul>	iew	area:
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Area:	(m <sup>2</sup> )
Linear:	(m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Received complaint regarding work being performed in wetlands. After inspection, work is being performed in upland areas.

#### **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

#### 2. Wetland Adjacent to TNW

Not Applicable.

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

## (i) General Area Conditions:

Watershed size:	[]
Drainage area:	[]
Average annual rainfall:	inches
Average annual snowfall:	inches

### (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [ ] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# Tributary Stream Order, if known:

ORM Printer Friendly JD Form
(b) General Tributary Characteristics: Tributary is: Not Applicable.
Tributary properties with respect to top of bank (estimate): Not Applicable.
Primary tributary substrate composition: Not Applicable.
Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.
(c) Flow: Not Applicable.
Surface Flow is: Not Applicable.
Subsurface Flow: Not Applicable.
Tributary has: Not Applicable.
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.
(iv) Biological Characteristics. Channel supports: Not Applicable.
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.
Surface flow is: Not Applicable.
Subsurface flow:

# Subsurface flow: Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.

# (d) Proximity (Relationship) to TNW: Not Applicable.

### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

## 1. TNWs and Adjacent Wetlands:

Not Applicable.

#### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

## Provide acreage estimates for jurisdictional wetlands in the review area:

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

# Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:10

Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# **SECTION IV: DATA SOURCES.**

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

# **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- 3-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup>-To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

## A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 09-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01203-JD1

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: TN - Tennessee
County/parish/borough: Washington
City: Johnson City
Lat: 36.3694
Long: -82.42738

Universal Transverse Mercator: []

Name of nearest waterbody:

Name of nearest Traditional Navigable Water (TNW): Watauga River

Name of watershed or Hydrologic Unit Code (HUC): 06010103

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 09-Jul-2008

22-Aug-2007

Field Determination Date

09-Jul-2008

(s):

# SECTION II: SUMMARY OF FINDINGS

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

The state of the s					
	Water Name	Water Type(s) Present			
	File #2008-01203; Johnson City Power Board Wetland Area	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs			

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

### **1.TNW**

Not Applicable.

# 2. Wetland Adjacent to TNW

Not Applicable.

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

### (i) General Area Conditions:

Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches

# (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# **Tributary Stream Order, if known:**

# (b) General Tributary Characteristics:

#### Tributary is:

Not Applicable.

# Tributary properties with respect to top of bank (estimate):

Not Applicable.

# Primary tributary substrate composition:

Not Applicable.

# Tributary (conditions, stability, presence, geometry, gradient):

Not Applicable.

## (c) Flow:

Not Applicable.

### Surface Flow is:

Not Applicable.

# Subsurface Flow:

Not Applicable.

# **Tributary has:**

Not Applicable.

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

### High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by:

Not Applicable.

#### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iv) Biological Characteristics. Channel supports:

Not Applicable.

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

# (i) Physical Characteristics:

# (a) General Wetland Characteristics:

**Properties:** 

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
File #2008-01203; Johnson City Power Board Wetland Area	.32	Palustrine emergent	moderate to high quality	No

# (b) General Flow Relationship with Non-TNW:

Flow is:

Wetland Name	Flow	Explain
File #2008-01203; Johnson City Power Board Wetland Area	Perennial flow.	-

#### Surface flow is:

Wetland Name	Flow	Characteristics
File #2008-01203; Johnson City Power Board Wetland Area	Discrete and confined	Channel runs through wetland area, although during high rain events sheet flow is present throughout wetland area

#### Subsurface flow:

Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Test
File #2008-01203; Johnson City Power Board Wetland Area	Unknown	-	-

# (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
File #2008-01203; Johnson City Power Board Wetland Area	Yes	-	-	-

#### (d) Proximity (Relationship) to TNW:

Wetland Name		Aerial Miles From TNW		Within Floodplain
File #2008-01203; Johnson City Power Board Wetland Area	2-5	2-5	Wetland to navigable waters	500-year or greater

### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollutants, if known
File #2008-01203; Johnson City Power Board Wetland Area	-	Unknown

# (iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain
File #2008-01203; Johnson City Power Board Wetland Area	-	-		Several Carex spp, Juncus effusus, Leersia virginica 75% - 80% cover

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

## C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetland Name	Flow	Explain
File #2008-01203; Johnson City Power Board Wetland Area	PERENNIAL	Channel is spring fed and flows year round

Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
•	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	1294.99392
Total:		0	1294.99392

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### **SECTION IV: DATA SOURCES.**

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	Wetland Delineation	Originally performed by Applied Environmental Services LLC - no survey submitted
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	Permit Application	LD&A submitted survey of delineated wetlands
Data sheets prepared/submitted by or on behalf of the applicant/ consultant	Applied Environmental Services LLC	-
Office concurs with data sheets/ delineation report	-	-
U.S. Geological Survey map(s).	Jonesborough Quad	-

# **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>1-</sup>Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7-</sup>Ibid.

<sup>8-</sup>See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMP	LETION DATE FOR AP	PROVED JURISDIC II	IONAL DE LERMINA	110N (JD): 07-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01201-JD1

C DDO IECT I OCATION AND BACKGROUND INFORMATION.

C. PROJECT LOCATION AND BACKGROUND INFO	DRIVIA HON.
State:	TN - Tennessee
County/parish/borough:	Sevier
City:	
Lat:	35.88586
Long:	-83.73549
Universal Transverse Mercator:	17N
Name of nearest waterbody:	Boyds Creek
Name of nearest Traditional Navigable Water (TNW):	French Broad River
Name of watershed or Hydrologic Unit Code (HUC):	6010107
<b>▽</b>	
Check if map/diagram of review area and/or potentia	l jurisdictional areas is/are available upon request.
Check if other sites (e.g., offsite mitigation sites, disp	oosal sites, etc¿) are associated with the action and are recorded on a different JD form.

# D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date:	
Field Determination Detects	03-Jul-2008
Field Determination Date(s):	

# **SECTION II: SUMMARY OF FINDINGS**

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

### 1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
200801201	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)	
Linear: (m)	
c. Limits (boundaries) of jurisdiction:	
based on: [] OHWM Elevation: (if known)	
2. Non-regulated waters/wetlands: <sup>3</sup>	
Potentially jurisdictional waters and/or wetla	ands were assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS	
A. TNWs AND WETLANDS ADJACENT TO	D TNWs
1.TNW Not Applicable.	
2. Wetland Adjacent to TNW Not Applicable.	
B. CHARACTERISTICS OF TRIBUTARY (7	THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow	directly or indirectly into TNW
(i) General Area Conditions:  Watershed size: []  Drainage area: []  Average annual rainfall: inches  Average annual snowfall: inches	
(ii) Physical Characteristics (a) Relationship with TNW:	
Tributary flows directly into TNW.	
Tributary flows through [] tributaries be	efore entering TNW.
:Number of tributaries	
Project waters are [] river miles from TNW	
Project waters are [] river miles from RPW	
Project Waters are [] aerial (straight) miles	
Project waters are [] aerial(straight) miles t	IIIIII KEW.
Project waters cross or serve as state bour Explain:	ndaries.
Identify flow route to TNW:5	
Tributary Stream Order, if known:	
Order	Tributary Name
2	200801201

# (b) General Tributary Characteristics: Tributary is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
200801201	X	-	-	-	-

Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes	
200801201	5	2	3:1	

# Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
200801201	Х	Х	-	-	Χ	Х	-	-	-

### Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
200801201	Tributary appeared Stable	100% run	Meandering	1.5

# (c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
200801201	Perennial flow	-	-	-

#### Surface Flow is:

Tributary Name	Surface Flow	Characteristics
200801201	Confined	-

# **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200801201	Unknown	-	-

#### Tributary has:

Tributary Name	Bed & Banks	ОНШМ	Discontinuous OHWM <sup>7</sup>	Explain
200801201	X	X	-	-

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

Tributary Name	OHWM	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow
200801201	Х	Χ	-	-	-	-	-	-	-	-	-	-	

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by:

Not Applicable.

# (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
200801201	Water clear at time of inspection	Unknown

#### (iv) Biological Characteristics, Channel supports:

(iii) =ioiogioui oiiuiu		P			
Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
200801201	X	forested within project area	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: **Properties:** Not Applicable. (b) General Flow Relationship with Non-TNW: Flow is: Not Applicable. Surface flow is: Not Applicable. Subsurface flow: Not Applicable. (c) Wetland Adjacency Determination with Non-TNW: Not Applicable. (d) Proximity (Relationship) to TNW: Not Applicable. (ii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable. (iii) Biological Characteristics. Wetland supports: Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

#### 2. RPWs that flow directly or indirectly into TNWs:

2. Iti WS that how and	chy of manectry mic	114113.
Wetland Name Flow		Explain

#### 200801201

Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200801201	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	387.096	-
Total:		387.096	0

3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

	NICKL HIDICOLOTICALAL	WATERS	INICH HIDINIC WITT	ANDO
ь.	NON-JURISDICTIONAL	WAIRS.	. INC.I CILJING WELL	ANIJS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

The first and thousand to allow that he cubotal had not been considered (c. 151-519.1) commerced.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### SECTION IV: DATA SOURCES.

# A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description		
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-		
Data sheets prepared/submitted by or on behalf of the applicant/consultant	-	-		
Office concurs with data sheets/delineation report	-	-		
U.S. Geological Survey Hydrologic Atlas	-	-		
USGS 8 and 12 digit HUC maps	-	-		
U.S. Geological Survey map(s).	Boyds Creek, Tennessee quad	-		
Photographs	-	-		
Other	COE 3-Jul-2008	-		

## **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>8-</sup>See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 23-Jul-2008				
B. DISTRICT OFFICE, FILE NAME, AND NUMBER:	ER: Nashville District, LRN-2008-01202-JD1  INFORMATION:  TN - Tennessee Blount  35.65573 -84.10368 16N Little Baker Creek  IW): Little Tennessee River  C): 6010204  ential jurisdictional areas is/are available upon request.  disposal sites, etc¿) are associated with the action and are recorded on a different JD form			
C. PROJECT LOCATION AND BACKGROUND INF	ORMATION:			
State:	TN - Tennessee			
County/parish/borough:	Blount			
City:				
Lat:	35.65573			
Long:				
Universal Transverse Mercator:	16N			
Name of nearest waterbody:				
Name of nearest Traditional Navigable Water (TNW)				
Name of watershed or Hydrologic Unit Code (HUC):	6010204			
	posal sites, etc¿) are associated with the action and are recorded on a different JD form			
D. REVIEW PERFORMED FOR SITE EVALUATION	i.			
Office Determination Date: 23-Jul-2008				
<b>✓</b>				
Field Determination Date(s):				
SECTION II: SUMMARY OF FINDINGS	NUMBER: Nashville District, LRN-2008-01202-JD1  DUND INFORMATION:  TN - Tennessee Blount  35.65573 -84.10368 16N Little Baker Creek ter (TNW): Little Tennessee River le (HUC): 6010204  or potential jurisdictional areas is/are available upon request.  sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form  LUATION:  DINGS  F JURISDICTION hin Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area			
A. RHA SECTION 10 DETERMINATION OF JURISI	DICTION			
	RMATION: IN - Tennessee Blount 35.65573 84.10368 I6N Little Baker Creek Little Tennessee River 6010204 jurisdictional areas is/are available upon request. sal sites, etc¿) are associated with the action and are recorded on a different JD form			
Waters subject to the ebb and flow of the tic	de.			
Waters are presently used, or have been us commerce.	sed in the past, or may be susceptible for use to transport interstate or foreign			

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

# 1. Waters of the U.S.

Explain:

a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
200801202	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

Area: (m²)		
Linear: (m)		
c. Limits (boundaries) of jurisdiction:		
based on: [] OHWM Elevation: (if known)		
Orivvivi Elevation. (ii known)		
2. Non-regulated waters/wetlands: <sup>3</sup>		
Potentially jurisdictional waters and/or wetla	ands were assessed within the review area and determined to be not jurisdictional. Explain:	
SECTION III: CWA ANALYSIS		
	O TANAL.	
A. TNWs AND WETLANDS ADJACENT TO	OINWS	
1.TNW Not Applicable.		
2. Wetland Adjacent to TNW Not Applicable.		
Tion pendable.		
B. CHARACTERISTICS OF TRIBUTARY (	THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):	
1. Characteristics of non-TNWs that flow directly or indirectly into TNW		
(i) General Area Conditions:		
Watershed size: []		
Drainage area: []		
Average annual rainfall: inches		
Average annual snowfall: inches		
(ii) Physical Characteristics		
(ii) Physical Characteristics (a) Relationship with TNW:		
Tributary flows directly into TNW.		
Tributary flows through [] tributaries be	efore entering TNW.	
:Number of tributaries		
Project waters are [] river miles from TNW		
Project waters are [] river miles from RPW		
Project Waters are [] aerial (straight) miles		
Project waters are [] aerial(straight) miles		
Project waters cross or serve as state bou	ndaries.	
Explain:		
Identify flow route to TNW: <sup>5</sup>		
Tributary Stream Order, if known:		
Order	Tributary Name	
-	200801202	
	<del></del>	

# (b) General Tributary Characteristics: Tributary is:

······································					
Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
200801202	X	-	-	-	-

Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes
200801202	25	3	3:1

## Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
200801202	Х	-	-	X	-	Х	-	-	-

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
200801202	TDOT: moderately unstable	TDOT: 100% run	Meandering	-

### (c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
200801202	Perennial flow	-	-	-

### **Surface Flow is:**

Tributary Name	Surface Flow	Characteristics
200801202	Confined	-

### **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test	
200801202 Unknown		-	-	

### Tributary has:

Tributary Name	Bed & Banks	ОНШМ	Discontinuous OHWM <sup>7</sup>	Explain
200801202	X	X	-	-

Tributaries with OHWM<sup>6</sup> - (as indicated above)

Tributary Name	OHWM	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow
200801202	Х	Х	-	-	-	-	-	-	-	-	-	-	

## If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

### **High Tide Line indicated by:**

Not Applicable.

### Mean High Water Mark indicated by:

Not Applicable.

# (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
Tributary Name	Explain	Identify specific pollutants, if known
200801202	water very silty. TDEC 303d: Alteration in stream-side or littoral vegetative cover, Loss of biological integrity due to siltation.	TDEC 303d: Pasture Grazing, sediment

(iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
200801202	-	-	-	-	-

### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Not Applicable.

### (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

Surface flow is:

Not Applicable.

### Subsurface flow:

Not Applicable.

### (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

### (d) Proximity (Relationship) to TNW:

Not Applicable.

### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable.

### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

### 2. RPWs that flow directly or indirectly into TNWs:

200801202 PERENNIAL substanial flow seen that was not in response to race.  Provide estimates for jurisdictional waters in the review area:  Wetland Name Type			
1	substanial flow seen that was not in response to rain		
Wetland Name Type			
	Size (Linear) (m)	Size (Area) (m²	
200801202 Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs		-	

0

2286

3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Total:

**Provide estimates for jurisdictional waters in the review area:** Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area: Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: 10 Not Applicable.

**Identify water body and summarize rationale supporting determination:** Not Applicable.

**Provide estimates for jurisdictional waters in the review area:** Not Applicable.

### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird

Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### SECTION IV: DATA SOURCES.

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Data sheets prepared/submitted by or on behalf of the applicant/consultant	-	-
Office concurs with data sheets/delineation report	-	-
U.S. Geological Survey Hydrologic Atlas	-	-
USGS 8 and 12 digit HUC maps	-	-
U.S. Geological Survey map(s).	Binfield, Tennessee quad	-
USDA Natural Resources Conservation Service Soil Survey.	online WSS 2.0	-
Photographs	-	-
Other	TDOT 19-Jun-2008	-

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

<sup>&</sup>lt;sup>9</sup>-To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

### **SECTION I: BACKGROUND INFORMATION**

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01074-JD1

$\sim$		IECT I	OCATION	AND	BACKGROUND	INICODMATION.
l	PRU	JEGII	CICATION	ANII	BACKGROUND	INFORWATION

State: TN - Tennessee

County/parish/borough:

Greene

City:

Lat: 36.22887929545245 Long: -82.65011162069181

Universal Transverse Mercator: 17N

Name of nearest waterbody: Cedar Creek
Name of nearest Traditional Navigable Water (TNW): Nolichucky River

Name of watershed or Hydrologic Unit Code (HUC): 6010108

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

### D. REVIEW PERFORMED FOR SITE EVALUATION:

26-Jun-2008

Office Determination Date:

Field Determination Date(s):

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

### 1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
200801074	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs

### b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)	
Linear: (m)	
c. Limits (boundaries) of jurisdiction:	
based on: [] OHWM Elevation: (if known)	
2. Non-regulated waters/wetlands: <sup>3</sup>	
Potentially jurisdictional waters and/or wetla	ands were assessed within the review area and determined to be not jurisdictional. Explain:
SECTION III: CWA ANALYSIS	
A. TNWs AND WETLANDS ADJACENT TO	D TNWs
1.TNW Not Applicable.	
2. Wetland Adjacent to TNW Not Applicable.	
B. CHARACTERISTICS OF TRIBUTARY (	THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow	directly or indirectly into TNW
(i) General Area Conditions:  Watershed size: []  Drainage area: []  Average annual rainfall: inches  Average annual snowfall: inches	
(ii) Physical Characteristics (a) Relationship with TNW:	
Tributary flows directly into TNW.	
Tributary flows through [] tributaries be	efore entering TNW.
:Number of tributaries	
Project waters are [] river miles from TNW Project waters are [] river miles from RPW Project Waters are [] aerial (straight) miles Project waters are [] aerial(straight) miles from the straight of the stra	from TNW.
Project waters cross or serve as state bour Explain:	ndaries.
Identify flow route to TNW: <sup>5</sup>	
Tributary Stream Order, if known:  Order	Tributary Name
-	200801074

# (b) General Tributary Characteristics: Tributary is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
200801074	Х	-	-	-	-

Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes
200801074	-	-	-

Primary tributary substrate composition:

	Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
2	200801074	-	-	-	-	-	-	-	-	-

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
200801074	-	-	-	-

(c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
200801074	Perennial flow	-	-	-

**Surface Flow is:** 

Tributary Name	Surface Flow	Characteristics
200801074	-	-

### **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200801074	-	-	-

Tributary has:

Tributary Name	Bed & Banks	ОНШМ	Discontinuous OHWM <sup>7</sup>	Explain
200801074	X	X	-	-

Tributaries with OHWM<sup>6</sup> - (as indicated above)

Tributary Name	OHWM	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow
200801074	Х	Х	-	-	-	-	-	-	-	-	-	-	

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

### **High Tide Line indicated by:**

Not Applicable.

### Mean High Water Mark indicated by:

Not Applicable.

### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
200801074	-	-

(iv) Biological Characteristics. Channel supports:

<u>(11) = 1111                             </u>					
Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
200801074	-	-	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: **Properties:** Not Applicable. (b) General Flow Relationship with Non-TNW: Flow is: Not Applicable. Surface flow is: Not Applicable. Subsurface flow: Not Applicable. (c) Wetland Adjacency Determination with Non-TNW: Not Applicable. (d) Proximity (Relationship) to TNW: Not Applicable. (ii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable. (iii) Biological Characteristics. Wetland supports: Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

IN WS that now directly of manectly into 11445.						
Wetland Name	Flow	Explain				

Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200801074	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	1524	-
Total:		1524	0

3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

	NON-JURISDICTIONAL	WATERA	INIOL LIBINIO WIETI	ALIDO
-	NON-HIRISING HONAL	WAIFRS		

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

### SECTION IV: DATA SOURCES.

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

(,,,,,,,	,	
Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Corps navigable waters study	-	-
U.S. Geological Survey Hydrologic Atlas	-	-
USGS 8 and 12 digit HUC maps	-	-
U.S. Geological Survey map(s).	Chuckey, Tennessee quad	-
Photographs	-	-
Other	Applicant: date unknown	-

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

 $<sup>^{9}</sup>$  -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

### **SECTION I: BACKGROUND INFORMATION**

### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 31-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01060-JD1

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State : TN - Tennessee County/parish/borough: Sullivan

City: Kingsport

Lat: 36.559502417796 Long: -82.4806096756033

Universal Transverse Mercator: 17N

Name of nearest waterbody: Gaines Branch

Name of nearest Traditional Navigable Water (TNW): South Fork Holston River

Name of watershed or Hydrologic Unit Code (HUC): 6010102

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date:

30-Jul-2008

Field Determination Date(s):

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

### 1. Waters of the U.S.

### a. Indicate presence of waters of U.S. in review area:1

an interior protection of the control of the contro					
Water Name	Water Type(s) Present				
200801060 RPW	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs				
200801060 WL	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs				

### b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

### c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

### 2. Non-regulated waters/wetlands:<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

### **SECTION III: CWA ANALYSIS**

### A. TNWs AND WETLANDS ADJACENT TO TNWs

### **1.TNW**

Not Applicable.

### 2. Wetland Adjacent to TNW

Not Applicable.

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

### (i) General Area Conditions:

Watershed size: 1170 square miles

Drainage area: 51 acres
Average annual rainfall: 45 inches
Average annual snowfall: 12 inches

### (ii) Physical Characteristics

### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 2-5 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 2-5 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

Unnamed tributary to Gaines Branch to Reedy Creek to South Fork Holston River

### Tributary Stream Order, if known:

Order	Tributary Name
1	200801060 RPW

### (b) General Tributary Characteristics:

**Tributary** is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
200801060 RPW	-	-	-	Х	apparent old excavation in part of channel to improve drainage.

Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes	
200801060 RPW	4	2	2:1	

Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
200801060 RPW	Х	-	-	-	Х	-	-	-	-

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
200801060 RPW	stable in area that has not been excavated.	N/A	Meandering	2

(c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
200801060 RPW	Seasonal flow	20 (or greater)	Flows through wet season and in response to rain during dry season.	-

### Surface Flow is:

Tributary Name	Surface Flow	Characteristics
200801060 RPW	Discrete and confined	-

### **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200801060 RPW	Unknown	-	-

**Tributary has:** 

Tributary Name	Bed & Banks	ОНШМ	Discontinuous OHWM <sup>7</sup>	Explain
200801060 RPW	X	X	-	-

Tributaries with OHWM<sup>6</sup> - (as indicated above)

Tributaries with	CITAL	ı - (aə	illuice	alcu abov	<i>-</i> ,								
Tributary Name	OHWM	Clear	Litter	Changes in Soil	Destruction Vegetation	Shelving	Wrack Line	Matted\Absent Vegetation	Sediment Sorting	Leaf Litter	Scour	Sediment Deposition	Flow
200801060 RPW	Х	Х	Х	-	-	-	Х	-	-	Х	Х	Χ	

### If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by:

Not Applicable.

### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
200801060 RPW	No flow at time of inspection, but bed load shows high siltation from sediment load.	Sediment from upstream development

(iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
200801060 RPW	-	-	-	-	Х

Habitat for: (as indicated above)

	Tributary Name	Habitat	Federally Listed Species	Explain Findings	Fish\Spawn Areas	Explain Findings	Other Environmentally Sensitive Species	Explain Findings	Aquatic\Wild Diversity
- 1	200801060 RPW	X	-	-	-	-	-	-	Х

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

## (i) Physical Characteristics:

# (a) General Wetland Characteristics:

**Properties:** 

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
200801060 WL	1.98	forested and emergent in disturbed area	good in undisturbed area and poor in disturbed area	N/A

### (b) General Flow Relationship with Non-TNW:

Flow is:

Wetland Name	Flow	Explain
200801060 WL	Intermittent flow.	-

### Surface flow is:

Wetland Name	Flow	Characteristics
200801060 WL	Overland sheetflow	-

### Subsurface flow:

Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200801060 WL	Unknown	-	-

(c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
200801060 WL	Yes	-	-	-

(d) Proximity (Relationship) to TNW:

<u>, , , , , , , , , , , , , , , , , , , </u>				
Wetland Name	River Miles From TNW	Aerial Miles From TNW	Flow Direction	Within Floodplain
200801060 WL	2-5	1-2	-	-

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollutants, if known
200801060 WL	-	sediment and fill

# (iii) Biological Characteristics. Wetland supports:

Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain
200801060 WL	X	forested in undisturbed area	-	-

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: 200801060 RPW, 200801060 WL

Wetland directly abuts an unnamed tributary to Gaines Branch, which flows in Reedy Creek and is major tributary to the South Fork Holston River. Placment of fill in wetland or RPW could have direct impact on TNW by allowing the transport of sediment and other pollutants to the TNW. Additionally, there would be a decrease in water storage capacity in the drainage area which could increase water levels downstream during high water events.

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Wetland Name	Flow	Explain
200801060 RPW	SEASONAL	-

### Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200801060 RPW	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	609.6	-
Total:		609.6	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetland Name	Flow	Explain
200801060 WL	SEASONAL	-

### Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200801060 WL	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	8012.77488
Total:		0	8012.77488

5. Wetlands adjacent to but not directly abutting an RPW that flo Not Applicable.	w directly or indirectly into	TNWs:
Provide acreage estimates for jurisdictional wetlands in the review Not Applicable.	ew area:	
6. Wetlands adjacent to non-RPWs that flow directly or indirectly Not Applicable.	into TNWs:	
Provide estimates for jurisdictional wetlands in the review area: Not Applicable.		
7. Impoundments of jurisdictional waters: <sup>9</sup> Not Applicable.		
E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUING DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMM Not Applicable.		
Identify water body and summarize rationale supporting determine Not Applicable.	nation:	
Provide estimates for jurisdictional waters in the review area: Not Applicable.		
F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS		
If potential wetlands were assessed within the review area, these ar Delineation Manual and/or appropriate Regional Supplements:	eas did not meet the criteria in	n the 1987 Corps of Engineers Wetland
Review area included isolated waters with no substantial nexus to ir	nterstate (or foreign) commerc	e:
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the re Rule" (MBR):	view area would have been re	egulated based soley on the "Migratory Bird
Waters do not meet the "Significant Nexus" standard, where such a	finding is required for jurisdict	tion (Explain):
Other (Explain):		
Provide acreage estimates for non-jurisdictional waters in the refactors (ie., presence of migratory birds, presence of endangere professional judgment:  Not Applicable.		
Provide acreage estimates for non-jurisdictional waters in the re such a finding is required for jurisdiction. Not Applicable.	view area, that do not meet	the "Significant Nexus" standard, where
SECTION IV: DATA SOURCES.		
A. SUPPORTING DATA. Data reviewed for JD (listed items shall be included in case file and, where checked and re	quested, appropriately referer	nce below):
Data Reviewed	Source Label	Source Description

		I .
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	-	-
Data sheets prepared/submitted by or on behalf of the applicant/consultant	S&ME, Inc	Kingsport, Tennessee office dated 8- July-2008
Office concurs with data sheets/delineation report	-	-
U.S. Geological Survey Hydrologic Atlas	-	-
USGS 8 and 12 digit HUC maps	-	-
U.S. Geological Survey map(s).	Indian Springs, Tennessee quad	-
USDA Natural Resources Conservation Service Soil Survey.	Online web soil survey 2.0	-
National wetlands inventory map(s).	-	-
Photographs	-	-
Aerial	ORM2	-

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED	JURISDICTIONAL DETERMINATION (JD): 14-Apr-2008
B. DISTRICT OFFICE, FILE NAME, AND NUMBER:	Nashville District, LRN-2007-01548-JD3
C. PROJECT LOCATION AND BACKGROUND INFO	DRMATION:
State:	TN - Tennessee
County/parish/borough:	McMinn
City:	
Lat:	35.3875
Long:	-84.53097
Universal Transverse Mercator:	
Name of nearest waterbody:	Chestuee Creek
Name of nearest Traditional Navigable Water (TNW):	Hiwassee River
Name of watershed or Hydrologic Unit Code (HUC):	6020002
Check if map/diagram of review area and/or potentia	Liuriadiational aroog ig/aro available upon request
Check if map/diagram of review area and/or potentia	i junsuictional aleas is/ale available upon request.
Check it other sites (e.g., offsite mitigation sites, disp	osal sites, etc¿) are associated with the action and are recorded on a different JD form
D. REVIEW PERFORMED FOR SITE EVALUATION:	
Office Determination Date:	
Eight Determination Date(s):	
rield Determination Date(s).	
SECTION II: SUMMARY OF FINDINGS	
A. RHA SECTION 10 DETERMINATION OF JURISD	ICTION
	and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area
There [] havigable waters of the 0.5. within Rivers	and Haibors Act (KHA) jurisuiction (as defined by 33 CFK part 329) in the review area
Waters subject to the ebb and flow of the tide	Э.
Waters are presently used, or have been use	ed in the past, or may be susceptible for use to transport interstate or foreign
commerce.	
Explain:	
B. CWA SECTION 404 DETERMINATION OF JURIS	DICTION.
	t (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.
	t (21.1.1) juniculation (all definited by 60 of it part 620) in the review area.
4 Materia of the U.C.	
1. Waters of the U.S.	

Isolated (interstate or intrastate) waters, including isolated wetlands

Water Type(s) Present

# b. Identify (estimate) size of waters of the U.S. in the review area:

a. Indicate presence of waters of U.S. in review area:1

Water Name

200701548 WL3

Area: (m²)
Linear: (m)
c. Limits (boundaries) of jurisdiction:
based on: []
OHWM Elevation: (if known)
_
2. Non-regulated waters/wetlands: <sup>3</sup>
Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: small wetland was determined to not be connected to downstream waters via a surface connection.
SECTION III: CWA ANALYSIS
A. TNWs AND WETLANDS ADJACENT TO TNWs
A. THWS AND WETLANDS ADJACENT TO THWS
1.TNW
Not Applicable.
2. Wetland Adjacent to TNW
Not Applicable.
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow directly or indirectly into TNW
(i) General Area Conditions:
Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches
Average annual showiali. Inches
(ii) Physical Characteristics (a) Relationship with TNW:
Tributary flows directly into TNW.
Tributary flows through [] tributaries before entering TNW.
:Number of tributaries
Project waters are [] river miles from TNW.
Project waters are [] river miles from RPW.
Project Waters are [] aerial (straight) miles from TNW.
Project waters are [] aerial(straight) miles from RPW.
Project waters cross or serve as state boundaries.
Explain:
Identify flow route to TNW: <sup>5</sup>
Identity flow route to Trave.
Tributary Stream Order, if known: Not Applicable.
(b) General Tributary Characteristics: Tributary is: Not Applicable.
Tributers properties with respect to top of book (estimate).

**Tributary properties with respect to top of bank (estimate):** Not Applicable.

Primary tributary substrate composition: Not Applicable.
Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.
(c) Flow: Not Applicable.
Surface Flow is: Not Applicable.
Subsurface Flow: Not Applicable.
Tributary has: Not Applicable.
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.
(iv) Biological Characteristics. Channel supports: Not Applicable.
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.
Surface flow is: Not Applicable.
Subsurface flow: Not Applicable.
(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.
(d) Proximity (Relationship) to TNW: Not Applicable.

(ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable.

### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

## C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not	An	plica	able
1101	, ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup>

Waters Name	Interstate\Foreign Travelers	Fish/Shellfish Commerce	Industrial Commerce	Interstate Isolated	Explain	Other Factors	Explain
200701548 WL3	-	-	-	-	-	-	-

Identify water body and summarize rationale supporting determination:

Water Name	Adjacent To TNW Rationale	TNW Rationale
200701548 WL3	-	-

Provide estimates for jurisdictional waters in the review area:

Water Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 WL3	Isolated (interstate or intrastate) waters, including isolated wetlands	-	80.93712
Total:		0	80.93712

	NON-JURISDICTIONAL	WATERS	INCLUDING	WETI ANDS
г.	NON-JURISDIC HUNAL	WAIERO.	INCLUDING	WEILANDS

If potential wetlands were assessed within the review area,	these areas did not meet the criteria in	in the 1987 Corps of Engineers Wetlan
Delineation Manual and/or appropriate Regional Suppleme	nts:	

~

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

V

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Filling of this small wetland would not have a significant impact to TNW since there is no direct connection from this wetland to downstream waters.

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Water Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 WL3	Isolated (interstate or intrastate) waters, including isolated wetlands	-	80.93712
Total:		0	80.93712

### SECTION IV: DATA SOURCES.

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

OZOTION II DANOMONIO II II OMIIIA	
A. REPORT COMPLETION DATE FOR APPROVED	JURISDICTIONAL DETERMINATION (JD): 14-Apr-2008
B. DISTRICT OFFICE, FILE NAME, AND NUMBER:	Nashville District, LRN-2007-01548-JD2
C. PROJECT LOCATION AND BACKGROUND INFO	DRMATION:
State :	TN - Tennessee
County/parish/borough:	McMinn
City:	
Lat:	35.3875
Long:	-84.53097
Universal Transverse Mercator:	
Name of nearest waterbody:	Chestuee Creek
Name of nearest Traditional Navigable Water (TNW):	Hiwassee River
Name of watershed or Hydrologic Unit Code (HUC):	6020002
Check if map/diagram of review area and/or potentia	l jurisdictional areas is/are available upon request
The officer is map diagram of review area and/or potential	in jurisdictional areas is/are available aport request.
Check if other sites (e.g. offsite mitigation sites disp	oosal sites, etc¿) are associated with the action and are recorded on a different JD form
Check if other sites (e.g., offsite fillingation sites, disp	iosal sites, etc.) are associated with the action and are recorded on a different 3D form
D. REVIEW PERFORMED FOR SITE EVALUATION:	
Office Determination Date:	
26-Mar-2008	
Field Determination Date(s):	
( )	
SECTION II: SUMMARY OF FINDINGS	
A. RHA SECTION 10 DETERMINATION OF JURISD	ICTION
There [] "navigable waters of the U.S." within Rivers	and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area
Waters subject to the ebb and flow of the tide	е.
Waters are presently used, or have been use	ed in the past, or may be susceptible for use to transport interstate or foreign
commerce.	5
Explain:	
D 0004 0505100 404 D5555000 55 00000	DIOTION
B. CWA SECTION 404 DETERMINATION OF JURIS	
There [] "waters of the U.S." within Clean Water Ac	t (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

## 1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:1

Water Name Water Type(s) Present	
200701548 WL2	Isolated (interstate or intrastate) waters, including isolated wetlands

Area: (m²)
Linear: (m)
c. Limits (boundaries) of jurisdiction:
based on: []
OHWM Elevation: (if known)
_
2. Non-regulated waters/wetlands: <sup>3</sup>
Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: small wetland was determined to not be connected to downstream waters via a surface connection.
SECTION III: CWA ANALYSIS
A. TNWs AND WETLANDS ADJACENT TO TNWs
A. THWS AND WETLANDS ADJACENT TO THWS
1.TNW
Not Applicable.
2. Wetland Adjacent to TNW
Not Applicable.
B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
1. Characteristics of non-TNWs that flow directly or indirectly into TNW
(i) General Area Conditions:
Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches
Average annual showiali. Inches
(ii) Physical Characteristics (a) Relationship with TNW:
Tributary flows directly into TNW.
Tributary flows through [] tributaries before entering TNW.
:Number of tributaries
Project waters are [] river miles from TNW.
Project waters are [] river miles from RPW.
Project Waters are [] aerial (straight) miles from TNW.
Project waters are [] aerial(straight) miles from RPW.
Project waters cross or serve as state boundaries.
Explain:
Identify flow route to TNW: <sup>5</sup>
Identity flow route to Trave.
Tributary Stream Order, if known: Not Applicable.
(b) General Tributary Characteristics: Tributary is: Not Applicable.
Tributers properties with respect to top of book (estimate).

**Tributary properties with respect to top of bank (estimate):** Not Applicable.

Primary tributary substrate composition: Not Applicable.
Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.
(c) Flow: Not Applicable.
Surface Flow is: Not Applicable.
Subsurface Flow: Not Applicable.
Tributary has: Not Applicable.
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.
(iv) Biological Characteristics. Channel supports: Not Applicable.
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.
Surface flow is: Not Applicable.
Subsurface flow: Not Applicable.
(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.
(d) Proximity (Relationship) to TNW: Not Applicable.

(ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable.

### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

## C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not	Δn	nlica	hle
INOL	Αþ	piica	ibie.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

## 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup>

Waters Name	Interstate\Foreign Travelers	Fish/Shellfish Commerce	Industrial Commerce	Interstate Isolated	Explain	Other Factors	Explain
200701548 WL2	-	-	-	-	-	-	-

Identify water body and summarize rationale supporting determination:

Water Name	Adjacent To TNW Rationale	TNW Rationale
200701548 WL2	-	-

Provide estimates for jurisdictional waters in the review area:

Water Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 WL2	Isolated (interstate or intrastate) waters, including isolated wetlands	-	40.46856
Total:		0	40.46856

	NON	HIDIOD	LAHADITAL	WATERS	INICI LIDINIC	VA/ETI	ANDO
ь.	NON-	JURISD	IC HONAL	. WAIERS.	INCLUDING	3 VV E I L	.ANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:
Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Filling of this small wetland would not have a significant impact to TNW since there is no direct connection from this wetland to downstream waters.
Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Water Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 WL2	Isolated (interstate or intrastate) waters, including isolated wetlands	-	40.46856
Total:		0	40.46856

### **SECTION IV: DATA SOURCES.**

### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Not Applicable.

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-Ibid.

<sup>&</sup>lt;sup>8</sup>-See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

## **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 14-Apr-2008					
B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2007-01548-JD1					
C. PROJECT LOCATION AND BACKGROUND INFO	ORMATION:				
State:	TN - Tennessee				
County/parish/borough:	McMinn				
City:					
Lat:	35.3875				
Long:	-84.53097				
Universal Transverse Mercator:					
Name of nearest waterbody:	Chestuee Creek				
Name of nearest Traditional Navigable Water (TNW):	Hiwassee River				
Name of watershed or Hydrologic Unit Code (HUC):	6020002				
Check if map/diagram of review area and/or potentia	l jurisdictional areas is/are available upon request				
Check in map/diagram of review area and/or potentia	ii junisticiional areas is/are avallable upon request.				
Check if other sites (e.g., offsite mitigation sites, disp	oosal sites, etc¿) are associated with the action and are recorded on a different JD form				
D. REVIEW PERFORMED FOR SITE EVALUATION:					
Office Determination Date:					

### **SECTION II: SUMMARY OF FINDINGS**

Field Determination Date(s):

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

26-Mar-2008

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

### 1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:1

ai illaidate proceiles el	ar mareate processes or materie or electric review areas					
Water Name Water Type(s) Present						
200701548 WL1	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs					
200701548 trib	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs					

Area:	(m²)
Linear:	(m)

### c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

### 2. Non-regulated waters/wetlands:<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

### **SECTION III: CWA ANALYSIS**

### A. TNWs AND WETLANDS ADJACENT TO TNWs

### **1.TNW**

Not Applicable.

### 2. Wetland Adjacent to TNW

Not Applicable.

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

### (i) General Area Conditions:

Watershed size: 2060 square miles

Drainage area: 360 acres
Average annual rainfall: 58 inches
Average annual snowfall: 5.7 inches

### (ii) Physical Characteristics

### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 15-20 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 10-15 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

1st order unnamed tributary to 2nd order unnamed tributary to Chestuee Creek to Hiwassee River

### Tributary Stream Order, if known:

Order	Tributary Name
-	200701548 trib

### (b) General Tributary Characteristics:

**Tributary** is:

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
200701548 trib	-	-	-	-	-

Tributary properties with respect to top of bank (estimate):

Tributary Name	Width (ft)	Depth (ft)	Side Slopes
200701548 trib	-	-	-

Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
200701548 trib	-	-	-	-	-	-	-	-	-

Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
200701548 trib	-	-	-	-

(c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
200701548 trib	-	-	-	-

### Surface Flow is:

Tributary Name	Surface Flow	Characteristics
200701548 trib	-	-

### **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200701548 trib	-	-	-

**Tributary has:** 

Tributary Name	Bed & Banks	ОНWМ	Discontinuous OHWM <sup>7</sup>	Explain
200701548 trib	-	-	-	-

### If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# High Tide Line indicated by:

Not Applicable.

# Mean High Water Mark indicated by:

Not Applicable.

### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
200701548 trib	-	-

(iv) Biological Characteristics. Channel supports:

· / •					
Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
200701548 trib	-	-	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

(a) General Wetland Characteristics:

### **Properties:**

Wetland Name	Size (Acres)	Wetland Type	Wetland Quality	Cross or Serve as State Boundaries. Explain
200701548 WL1	1.09	-	-	-

### (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

### Surface flow is:

Wetland Name	Flow	Characteristics
200701548 WL1	-	-

### Subsurface flow:

Wetland Name	Subsurface Flow	Explain Findings	Dye (or other) Test
200701548 WL1	-	-	-

### (c) Wetland Adjacency Determination with Non-TNW:

Wetland Name	Directly Abutting	Discrete Wetland Hydrologic Connection	Ecological Connection	Separated by Berm/Barrier
200701548 WL1	No	-	-	-

### (d) Proximity (Relationship) to TNW:

Wetland Name	River Miles From TNW	Aerial Miles From TNW	Flow Direction	Within Floodplain
200701548 WL1	-	-	-	-

### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Wetland Name	Explain	Identify specific pollutants, if known
200701548 WL1	-	-

### (iii) Biological Characteristics. Wetland supports:

(, = : : : : : : : : : : : : : : : : : :				
Wetland Name	Riparian Buffer	Characteristics	Vegetation	Explain
200701548 WL1	-	-	-	-

### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: 200701548 WL1, 200701548 trib

Tributary serves as direct surface connection for upstream waters to TNW. Any alteration to this unnamed tributary or its associated wetland

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

### 1. TNWs and Adjacent Wetlands:

Not Applicable.

### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 trib	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	1931.2128	-
Total:		1931.2128	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
200701548 WL1	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs	-	4411.07304
Total:		0	4411.07304

### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: $^{10}$

Not Applicable.

### Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS
If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:
Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):
Other (Explain):
Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:  Not Applicable.
Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, wher such a finding is required for jurisdiction. Not Applicable.
SECTION IV: DATA SOURCES.
A. SUPPORTING DATA. Data reviewed for JD (listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.
A. SUPPORTING DATA. Data reviewed for JD (listed items shall be included in case file and, where checked and requested, appropriately reference below):

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>&</sup>lt;sup>7</sup>-lbid.

<sup>8-</sup>See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

### **SECTION I: BACKGROUND INFORMATION**

### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 16-Apr-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01237-JD1

## C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: TN - Tennessee
County/parish/borough: Hawkins
City: Rogersville
Lat: 36.47506
Long: -83.11505

Universal Transverse Mercator: []

Name of nearest waterbody: Byrd Creek
Name of nearest Traditional Navigable Water (TNW): Clinch River
Name of watershed or Hydrologic Unit Code (HUC): 06010205

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 07-Aug-2008

16-Apr-2008

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
File #2008-01237; Pond #1	Uplands
File #2008-01237; Pond #2	Uplands

Area: (m²) Linear: (m)

### c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

#### 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Areas were found that routinely hold water as a result of past excavation for agricultural use. These areas have no surface connection to streams or other waters of the use and no known subsurface connection exists.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

#### 2. Wetland Adjacent to TNW

Not Applicable.

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches

#### (ii) Physical Characteristics

#### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# **Tributary Stream Order, if known:**

OKW FIIITE FIEITING 3D FOITI
(b) General Tributary Characteristics: Tributary is: Not Applicable.
Tributary properties with respect to top of bank (estimate): Not Applicable.
Primary tributary substrate composition: Not Applicable.
Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.
(c) Flow: Not Applicable.
Surface Flow is: Not Applicable.
Subsurface Flow: Not Applicable.
Tributary has: Not Applicable.
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:
High Tide Line indicated by: Not Applicable.
Mean High Water Mark indicated by: Not Applicable.
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.
(iv) Biological Characteristics. Channel supports: Not Applicable.
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.
(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.
Surface flow is: Not Applicable.

# Subsurface flow:

Not Applicable.

# **(c) Wetland Adjacency Determination with Non-TNW:** Not Applicable.

# **(d) Proximity (Relationship) to TNW:** Not Applicable.

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

#### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

#### 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

#### Identify water body and summarize rationale supporting determination:

Not Applicable.

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- 3-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup>-To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 06	3-Aua-200
--	-----------

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-00960-JD2

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State : AL - Alabama
County/parish/borough: Madison
City: Huntsville

Lat: Long:

Universal Transverse Mercator: []

Name of nearest waterbody: Betts Spring Branch

Name of nearest Traditional Navigable Water (TNW): Wheeler Lake

Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 06-Aug-2008

08-Jul-2008

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

Δ	BHA	SECTION	1 10 DE	TERN	ЛІКІДТІС	ON OF	JURISDIC	NOIT:
М.	NIIA	SECTION		_   L	VI I A VIIIV	JIN OF	JUNISDIK	2 I IVJIN

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
Trator Itamio	Trails: Typs(o) Trails
Stream	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
Stream	Itelatively i elitialient waters (it ws) that now directly of indirectly into 114ws

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

Watershed size:

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

27.6 square

miles

Drainage area: 200 acres Average annual rainfall: 54 inches

Average annual snowfall: 3 inches

#### (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 5-10 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 5-10 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

Unnamed tributary, Betts Spring Branch, Barren Fork Creek that becomes Wheeler Lake(TNW)

# **Tributary Stream Order, if known:**

	Order	Tributary Name
1		Stream

# (b) General Tributary Characteristics:

# **Tributary is:**

Tributary Name	Natural	Artificial	Explain	Manipulated	Explain
Stream	X	-	-	-	-

# Tributary properties with respect to top of bank (estimate):

Tributar	y Name	Width (ft)	Depth (ft)	Side Slopes
Stream	10	)	5	3:1

# Primary tributary substrate composition:

Tributary Name	Silt	Sands	Concrete	Cobble	Gravel	Muck	Bedrock	Vegetation	Other
Stream	X	-	-	-	-	-	-	-	-

# Tributary (conditions, stability, presence, geometry, gradient):

Tributary Name	Condition\Stability	Run\Riffle\Pool Complexes	Geometry	Gradient (%)
Stream	stable	no	Relatively straight	.33

# (c) Flow:

Tributary Name	Provides for	Events Per Year	Flow Regime	Duration & Volume
Stream	Seasonal flow	20 (or greater)	wet months, otherwise following rain events	-

# **Surface Flow is:**

Tributary Name	Surface Flow	Characteristics
Stream	Confined	-

# **Subsurface Flow:**

Tributary Name	Subsurface Flow	Explain Findings	Dye (or other) Test
Stream	Unknown	-	-

# **Tributary has:**

Tributary Name	Bed & Banks	OHWM	Discontinuous OHWM <sup>7</sup>	Explain
Stream	X	X	-	-

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

			•													
<b>Tributary Name</b>	OHWM	Clear	Litter	Changes	Destruction	Shelving	Wrack Line	Matted\Absent	Sediment	Leaf Litter	Scour	Sediment	Flow Events	Water	Changes	Other
				in Soil	Vegetation			Vegetation	Sorting			Deposition		Staining	Plant	
Stream	Х	Х	-	-	-	-	-	X	Χ	-	Х	Х	Х	-	-	-

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# **High Tide Line indicated by:**

Not Applicable.

# Mean High Water Mark indicated by:

#### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

Tributary Name	Explain	Identify specific pollutants, if known
Stream	watershed young forest and Interstate	-

#### (iv) Biological Characteristics. Channel supports:

Tributary Name	Riparian Corridor	Characteristics	Wetland Fringe	Characteristics	Habitat
Stream	X	narrow wooded	-	-	-

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

(a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

# (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

# (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

# (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

# 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: Stream

carbon transport, flow attenuation

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

2. At the that how all cony of man cony mile frame.					
Wetland Name	Flow	Explain			
Stream	SEASONAL	size of watershed, channel characteristics and dry on day of inspection(summer)			

# Provide estimates for jurisdictional waters in the review area:

Wetland Name	Туре	Size (Linear) (m)	Size (Area) (m²)
Stream	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs	457.2	-
Total:		457.2	0

# 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

# Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:10

Not Applicable.

# Identify water body and summarize rationale supporting determination:

Not Applicable.

# Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on		
behalf of the applicant/consultant	[	
Corps navigable waters study	-	Nashville District Public Notice #86-23, dated 8 May 1986
U.S. Geological Survey map(s).	-	1:24,000 Madison
USDA Natural Resources Conservation Service		
Soil Survey.	-	
Photographs	-	-
Aerial	-	-
Other	-	-

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- 1-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.